

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 11051239
PUBLICATION DATE : 26-02-99

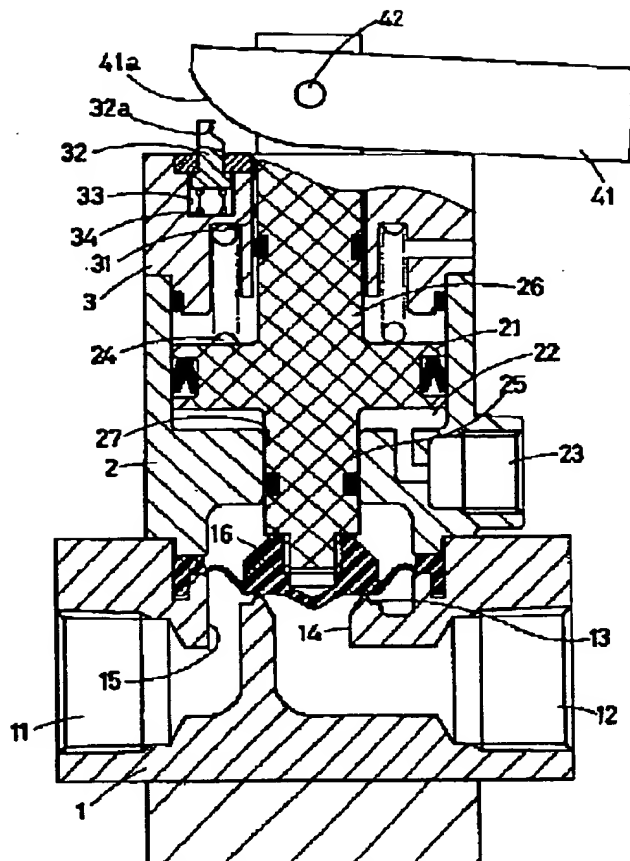
APPLICATION DATE : 01-08-97
APPLICATION NUMBER : 09207769

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INT.CL. : F16K 31/143 F16K 7/12 F16K 31/60

TITLE : AIR OPERATE VALVE FITTED WITH
MANUALLY OPERATING MECHANISM



ABSTRACT : PROBLEM TO BE SOLVED: To provide an air operate valve fitted with manually operating mechanism in which a manual valve and the air operate valve are embodied in a single piece and which involves less liquid sump, small area of installation, and can be achieved at a low cost.

SOLUTION: An air operate valve fitted with a manually operating mechanism is equipped with a valve body 1 structured so that a valve seat 13 is formed in a hole 14 to put the input port 11 in communication with the output port 12, a piston cylinder 2 formed on the valve body 1 rigidly and furnished with a piston 21 to make motions coaxially with the valve seat 13 and an energizing member 24 to energize the piston 21 toward the valve seat, piston rods 25 and 26 installed protrusively on the axis of the piston 21, a diaphragm valve element 16 fastened to the bottom of the piston rod 25 and contacting with and separating from the valve seat, and an opening/closing knob 41 which is borne at the top of the piston rod 26 penetrating the piston cylinder 2 and allows the piston rod 26 to separate the diaphragm valve element 16 from the valve seat 13 by the lever effect.

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Your Ref: F9104EP
Our Ref: Fujikura-EP0-05-14